

1 **UK-TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**  
**UKSI 2016:1107 (as amended) – Schedule 3A, Part 1**

3 UK-Type Examination Certificate Number: **BAS23UKEX0020X**

4 Product: **SM1P Headset**

5 Manufacturer: **Sensear Pty Limited**

6 Address: **4 Hehir Street, Belmont, WA, 6104, Australia**

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 SGS Baseefa, Approved Body number 1180, in accordance with Regulation 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR22.0205/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0: 2018**                      **EN 60079-11: 2012**

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following :

 See Schedule

SGS Baseefa Customer Reference No. **7853**

Project File No. **22/0490**

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**SGS Baseefa Limited**

Rockhead Business Park, Staden Lane,  
Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601  
e-mail [baseefa@sgs.com](mailto:baseefa@sgs.com) web site [www.sgs.co.uk/sgsbaseefa](http://www.sgs.co.uk/sgsbaseefa)

Registered in England No. 4305578.  
Registered address: Rossmore Business Park, Ellesmere Port, Cheshire,  
CH65 3EN



**R S SINCLAIR**  
**TECHNICAL MANAGER**  
On behalf of SGS Baseefa Limited

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## Schedule

14

Certificate Number BAS23UKEX0020X

### 15 Description of Product

The Type SM1P Electronic Ear-Muff is a battery powered, noise cancelling, headphone set designed to reduce background noise. It consists of two, plastic, ear cups each of which contains a speaker. Attached to the left-hand ear cup is a boom microphone, assembly number MFP00148 or throat microphone SMBM0002. These are plugged into a connector mounted in the left-hand ear cup enclosure wall. Small microphones are also mounted in both the left-hand side and the right-hand side enclosure walls, one in each. The right-hand, ear cup has a compartment with a lid which contains two connectors, i.e. a USB connector and a 3.5 mm stereo connector. A connector mounted in the right-hand, ear cup enclosure wall is used to optionally connect an external radio via a separate, cable mounted, interface unit identified as an SRCK61XXCCXX SM1P Ex Interface Cable, or to other EX approved devices with a separate Cable interface unit identified as SRCK62XXCCXX, this interface being associated with, and certified as part of, this equipment.

The SRCK61XXCCXX and SRCK62XXCCXX Interface Cables have the following intrinsic safety parameters at the connectors:

$$U_i = 9V$$

$$I_i = 2.22A \text{ (not a limiting factor)}$$

$$P_i = 1.3W$$

$$C_i = 0.09\mu F$$

$$L_i = 0\mu H$$

The following models are covered by this certificate:

SM1P	Base Model – All Features
SM1PW	No cabled Connection to any other device. Bluetooth® only
XBT	No Cable, No Short Range Radio – Just Bluetooth®
SM1PDP	Same as base Model: removes large speaker – adds earplugs with transducers
SM1B	No Short Range Radio, No Bluetooth®
SM1PWDP	No cable connection, removes large speaker - adds earplugs with transducers

#### With BAT00003

⊕ I M1 Ex ia I Ma (-20°C ≤ Ta ≤ +60°C)

⊕ II 1G Ex ia IIC T3 Ga (-20°C ≤ Ta ≤ +40°C)

#### With BAT00005

⊕ I M2 Ex ib I Mb (-20°C ≤ Ta ≤ +60°C)

⊕ II 2G Ex ib IIC T4 Gb (-20°C ≤ Ta ≤ +40°C)

⊕ II 2D Ex ib IIC T155°C Db (-20°C ≤ Ta ≤ +40°C)

### 16 Report Number

GB/BAS/ExTR22.0205/00

### 17 Specific Conditions of Use

1. Potential Electrostatic hazard, clean with damp cloth only.
2. The operating ambient temperature range is: -20°C to +60°C for Group I and: -20°C to +40°C for Groups II & III.

## 18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
13	LVD type requirements
14	Overloading of equipment (protection relays, etc.)
21(1)	External effects
21(2)	Aggressive substances, etc.

## 19 Drawings and Documents

Number	Sheet	Issue	Date	Description
IECEx125	10 sheets	AA.03	03/02/2023	SM1PB Ex Certification Markings

See Baseefa18ATEX0049X Issue 3 for full list of applicable drawings.